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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.		
09/657,616	05.38/2000	HIROKATSU MIYATA		CONFIRMATION NO.	
			35.C14776	2679	
5514 75	590 12/24/2002				
FITZPATRICK CELLA HARPER & SCINTO					
30 ROCKEFELLER PLAZA			EXAMINER		
NEW YORK, NY 10112			VO, HAI		
			ART UNIT	PAPER NUMBER	
			1771 DATE MAILED: 12/24/2002	.12	

Please find below and/or attached an Office communication concerning this application or proceeding.

		(8W, F)			
	Application No.	Applicant(s)			
Office Action Summary	09/657,616	MIYATA, HIROKATSU			
Carrier Gammary	Examiner	Art Unit			
The MAILING DATE of this communication	Hai Vo	1771			
The MAILING DATE of this communication Period for Reply	appears on the cover sneet will	th the correspondence address			
A SHORTENED STATUTORY PERIOD FOR RE THE MAILING DATE OF THIS COMMUNICATIO - Extensions of time may be available under the provisions of 37 CFF after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a - If NO period for reply is specified above, the maximum statutory per - Failure to reply within the set or extended period for reply will, by stated to the second patent term adjustment. See 37 CFR 1.704(b). Status	PN. R 1.136(a). In no event, however, may a re- reply within the statutory minimum of thirty riod will apply and will expire SIX (6) MONT	ply be timely filed (30) days will be considered timely. THS from the mailing date of this communication.			
1) Responsive to communication(s) filed on A	0/15/01				
0-107	This action is non-final.				
3) Since this application is in condition for all	Owance except for formal matt	ers prosecution as to the mosts is			
closed in accordance with the practice und Disposition of Claims	ler <i>Ex part</i> e <i>Quayle</i> , 1935 C.D	0. 11, 453 O.G. 213.			
4) Claim(s) $1-41$ is/are pending in the applicat	tion.				
4a) Of the above claim(s) 1-22 is/are withdrawn from consideration.					
5) Claim(s) is/are allowed.					
6)⊠ Claim(s) <u>23-25,27-38,40 and 41</u> is/are rejec	ted.				
7)⊠ Claim(s) <u>26 and 39</u> is/are objected to.					
8) Claim(s) are subject to restriction and	d/or election requirement.				
Application Papers					
9)☐ The specification is objected to by the Exami					
10)☐ The drawing(s) filed on is/are: a)☐ acc					
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
11)☐ The proposed drawing correction filed on is: a)☐ approved b)☐ disapproved by the Examiner.					
If approved, corrected drawings are required in reply to this Office action.					
12) The oath or declaration is objected to by the Examiner.					
Priority under 35 U.S.C. §§ 119 and 120					
13) Acknowledgment is made of a claim for forei	ign priority under 35 U.S.C. §	119(a)-(d) or (f).			
a)□ All b)□ Some * c)□ None of:					
1. Certified copies of the priority documents have been received.					
2. Certified copies of the priority docume					
3.☐ Copies of the certified copies of the pri application from the International E* See the attached detailed Office action for a list	SUreau (PCT Rule 17 2(a))				
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).					
a) ☐ The translation of the foreign language p 15)☐ Acknowledgment is made of a claim for domes	rovisional application has bee	n received			
Attachment(s)	p, andor 00 0.0.0, 9	5 120 and/01 121.			
Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Notice of Draftsperson's Patent Drawing Review (PTO-948) Notice of Draftsperson's Patent (s) (PTO-1449) Paper No(s)	E\ Notice of the	nmary (PTO-413) Paper No(s) rmal Patent Application (PTO-152)			
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Election/Restrictions

 The examiner absolutely agrees that Applicant reserves the right to request rejoinder of method claims upon indication of the product claims as being allowable.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

The changes made to 35 U.S.C. 102(e) by the American Inventors Protection Act of 1999 (AIPA) do not apply to the examination of this application as the application being examined was not (1) filed on or after November 29, 2000, or (2) voluntarily published under 35 U.S.C. 122(b). Therefore, this application is examined under 35 U.S.C. 102(e) prior to the amendment by the AIPA (pre-AIPA 35 U.S.C. 102(e)).

3. Claims 23-25, 27-30, 32, 33, 35, 40 and 41 are rejected under 35 U.S.C. 102(a) and 102(e) as being anticipated by Ozin et al (US 6,027,666) substantially as set forth in Paper no. 9. With regard to newly added claims 40 and 41, Ozin teaches the surfactant 22 contained in the pore structure (figure 2, column 4, lines 1-8). Ozin anticipates the claimed subject matter.

Claim Rejections - 35 USC § 103

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4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 5. Claim 31 is rejected under 35 U.S.C. 103(a) as being unpatentable over Ozin et al (US 6,027,666) as applied to claim 23 above, in view of Itoh et al (US 4,919,810) substantially as set forth in Paper no. 9.
- 6. Claim 34 is rejected under 35 U.S.C. 103(a) as being unpatentable over Ozin et al (US 6,027,666) as applied to claim 23 above, in view of Ward et al (US 3,962,205) substantially as set forth in Paper no. 9.
- 7. Claim 36, 37, and 38 are rejected under 35 U.S.C. 103(a) as being unpatentable over Ozin et al (US 6,027,666) as applied to claim 23 above in view of Leung et al (US 6,171,687) substantially as set forth in Paper no. 9. With regard to newly added claims 37 and 38, Leung teaches an infiltrating nanoporous material 132 comprising a volatile component 136 and a reinforcing component 138 (column 5, lines 24-26). Leung discloses the reinforcing component being formed from poly(arylene ether) which has a functional group different from the methylene groups in the repeating unit. It would have been obvious to one having ordinary skill in the art at the time the invention was made to incorporate into the support film of Ozin a reinforcement material having a functional group different from the methylene groups in the repeating unit as suggested by Leung motivated by the desire to form a good orientation of the mesoporous material film.

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Allowable Subject Matter

8. Claims 26 and 39 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims. None of the prior art discloses or suggests the mesostructure thin film having a recited structure as set forth in claim 23 wherein the surface of the polymer compound on which the mesostructure thin film is formed is uniaxially oriented.

Response to Arguments

- Applicant's arguments filed 10/07/2002 have been fully considered but they are not persuasive.
- 10. The 112 claim rejections have been overcome by the present amendment.
- 11. The art rejections in Paper no. 9 have been maintained because of the following reasons. Applicant argues that Ozin does not teach the formed mesostructure is uniaxially oriented. This is not found to be persuasive. Ozin does teach the mesostructure thin film being oriented (column 4, lines 3-8). Figures 1 and 2 of Ozin further describe the mesostructure thin film being uniaxially oriented (column 5, lines 1-25).

Conclusion

12. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed

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within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

13. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Hai. Vo whose telephone number is (703) 605-4426. The examiner can normally be reached on Tue-Fri, 8:30-6:00 and on alternating Mondays.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Terrel Morris can be reached on (703) 308-2414. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 872-9310 for regular communications and (703) 872-9311 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0661.

TERREL MORRIS SUPERVISORY PATENT EXAMINER TECHNOLOGY CENTER 1700

Jai 10
12/22/22